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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/116,124	07/15/1998	YASUTOMO NISHINA	450100-4521	2200

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NEW YORK, NY 10151

EXAMINER

TRAN, HAI V

ART UNIT	PAPER NUMBER
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2611

DATE MAILED: 12/18/2003

25

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/116,124

Applicant(s)

NISHINA ET AL.

Examiner

Hai Tran

Art Unit

2611

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09/09/03.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) 3 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1, 2 and 4-15 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
- a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to claims 1-2 and 4-15 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. Claims 1-2, 4-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shiga et al. (US 6005562) in view of Matthews, III et al. (US 6025837).

Regarding claim 1, Shiga discloses a transmitter system for transmitting program related information (EPG data) relating to program Information (EPG)(see Fig.1)

Generating means for generating the program related (see Fig.1, "Controls Switcher 301 couples EPGs ' data received from plurality of Television stations (NHK, NTV, TBS, FUJI, TV ASAHI, TV TOKIO and WOWOW) to EPG data generating device 309") and display related information (Fig.1, "Program control device 308 couples to the EPG data generating device 309 with control data to display EPG at receivers) relating to displaying the program related information; and

Transmitting means for transmitting the program related information and the display related information separately (In Fig. 1 the "Program control device" 308 couples (control data concerning display information of EPG such as Fig.8, 9 and 10) to the "EPG data generating device" 309 and the "Program control device" 308 also controls "Switcher" 301 to couple to "EPG data generating device" 309 to generate separately EPG1, EPG2, EPG3, wherein EPG1-3 correspond to plurality of Television stations NHK, NTV, TBS, FUJI, TV ASAHI, TV TOKIO and WOWOW received at Switcher 301. EPG1, EPG2, and EPG3 transmitted along with elements 302, 303-1, 303-2..303-7 through multiplexer 304-1..304-8; thus, it's clearly that Shiga discloses separate transmission of electronic program guide data and data concerning the display of the electronic program guide.);

Generating means composing the program related information (EPG data) and the display related information (Control data) of a first part "the leading 10 bytes, the original_network_id(2) and last_table_id(1)" including identification information (last_table_id) for identifying the program related information and display related information, and a second part (event descriptors loop [0..N]) composes of actual data (Col.13, lines 54-Col.14, lines 27).

Whereby the display related information (additional information) includes information for initiating an operation (Short_event_descriptor and Extended_event_descriptor; Col. 14, lines 12-18) in response to selection of a displayed item (Col. 22, lines 50-65+).

Whereby the displaying of the program related information includes partitioning a display space into boxes, partitioning each of the boxes into cells and displaying the program related information according to the boxes and cells (see Fig. 8 and 9; Col. 20, lines 13-20). As noted, Fig. 8 clearly shows the display space correspond to the window with the title "Programs to be Broadcast", within that window Shiga clearly shows two (2) boxes, i.e. 1st box has corresponding box's title "Station" and the 2nd box also has corresponding title corresponding to the time period "7:00 8:00 9:00"; Shiga further shows each of the two (2) boxes is partitioning into a plurality of cells (at least 2 cells), i.e. First (1st) Station' s Box has a plurality of cells (at least 2 cells) contain corresponding station' s name for each cell, such as CNN, MTV, Star... The 2nd box corresponds to the time period "7:00 8:00 9:00" also has a plurality of cells (at least 2 cells). Each of the cells contains corresponding TV program name, such as World News, World Sport, Money, etc...

Shiga does not clearly discloses partitioning a display space according to a hierarchial structure having at least three levels, a main page level, a box level and a cell level, wherein main pages are linked to box via a main-box link information and boxes are linked to cells via box-cell link information.

Matthews discloses partitioning a display space according to a hierarchial structure having at least three levels (Fig. 5), a main page level 110, a box level 114, 116, 120 and a cell level (i.e., time panel 116 (Box) with corresponding time cells; Col. 9, lines 1-55). As to "wherein main pages are linked to box via a main-box link information and boxes are linked to cells via box-cell link information" is met by the

well known GUI interface windowing environment of Microsoft Windows or IBM OS/2 environment as disclosed (Col. 8, lines 41-51). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Shiga with the teaching of Matthews so to provide to user a friendly GUI interface so that user could navigate with ease as intended in the windows environment.

Regarding claim 2, Shiga further discloses each "event descriptors loop" corresponds to a part claimed in which corresponds to the same data structure of each event (see claim 1 analysis).

Regarding claims 4, 5, 6, 7 and 12, Shiga discloses a receiver for recovering the program and EPG data transmitted over the broadcast channel to which a tuner is tuned. Although not specifically disclosing the receiver for separately receiving the program related information and display related information relating to displaying the program related information; generating fourth information for displaying the program related information based on the program related information and the display related information;

First separating the program related and the display related information into a first part containing identification for identifying the program related information and the display related information, and a second part composed of actual data; second separating the second part into a third part comprising identification information for

identifying the second part and a fourth part composed of actual data; retrieving data of the second part and the fourth part of the program related information and the display related information based on the identification information;

Updating the second part and the fourth part of the program related information and the display related information based on the identification information;

Display control means for displaying a first window on a predetermined screen and displaying data of fourth part within the first windows as claimed in claim 4-7.

Shiga receiver (Fig.23) must identify separately each stream of data so the receiver could recover the program and EPG data transmitted, as disclosed. The MPEG streams are received and separated by the de-multiplexer 24, stored in corresponding memory buffer of the receiver so that the CPU of the receiver could read out from the buffer memory the corresponding video and audio data and process them along with any control information received by users to display EPG and information on the appropriate location of the TV display as shown in Fig. 7, 8, 9 and 10 (also see Col. 21, lines 60 - Col. 23, lines 3). Clearly the MPEG stream would have information concerning the layout of the EPG received therein (Col. 20, lines 8-20), thus meeting the limitation of claims 4-7 and 12. Shiva further discloses whereby the display related information (additional information) includes information for initiating an operation (Col. 14, lines 12-18) in response to selection of a displayed item (Col. 22, lines 50-65+).

Whereby the displaying of the program related information includes partitioning a display space into at least two boxes, partitioning each of the boxes into at least two cells and displaying the program related information according to the boxes and cells (see Fig. 8 and 9; Col. 20, lines 13-20). As noted, Fig. 8 clearly shows the display space correspond to the window with the title "Programs to be Broadcast", within that window Shiga clearly shows two (2) boxes, i.e. 1st box has corresponding box's title "Station" and the 2nd box also has corresponding box's title of time period "7:00 8:00 9:00"; Shiga further shows each of the two (2) boxes is partitioning into a plurality of cells (at least 2 cells), i.e. First (1st) Station's Box has a plurality of cells (at least 2 cells) contain corresponding station's name for each cell, such as CNN, MTV, Star... The 2nd the time period "7:00 8:00 9:00" Box also has a plurality of cells (at least 2 cells) contain corresponding TV program displays in each of the cells, such as World News, World Sport, Money, etc...

Regarding method claim 8, see analysis of apparatus claim 1-3.

Regarding method claims 9 and 13 see analysis of apparatus claims 4-7 and 12.

Regarding claims 10-11 and 14, see analysis of claims 1-2.

Regarding claim 15, Shiga further discloses wherein the first window is composed of one or more boxes and the box is composed of one or more cells (Fig. 5, 6, 7, 8, 9 and 10) (Col. 9, lines 3-47).

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Contact Fax Information

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231

or Faxed to: (703) 872-9306,
(for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).

Contact Information


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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hai Tran whose telephone number is (703) 308-7372. The examiner can normally be reached on Monday through Friday from 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Faile, can be reached on (703) 305-4380. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-0377.

HT:ht
12/14/03


ANDREW FAILE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600